CONSTRUCTION VALUE ENGINEERING CONCEPT PROPOSAL MISSOURI DEPARTMENT OF TRANSPORTATION

		Date 04/10/2008
ontract ID 071130-901		Job No. J9L0700L
ounty Reynolds	Route 34	Original Bid Cost \$1,776,501.34
ontractor APAC-Missour	i, Inc.	By Phillip Raines
esigned By MoDOT		Phone (573) 449-0886
VE # 08	•	
Description of existing re-	quirements and proposed	change(s). Advantages/Disadvantages
Existing plans show constr	ruction of a 4' shoulder	
Proposed change would co		
Proposed change would ad	ld 2" of Bituminous Base to	the shoulders in lieu of 4" of Type 1 Aggregate
See attached spreadsheet		
Estimate of reduction in o	construction costs.	\$297,374.54
•		ll have on other department costs, such as
maintenance and operation	ons.	
	rity of the planned shoulder	provide a more stable shoulder; therefore, problem will be less.
Anticipated date for subn Specifications.	nittal of detailed change(s)	of items required by Section 104.6 of the
	(date	· ·)
Deadline for issuing a cha completion time or delive		mum cost reduction, noting the effect of contract
04/18/2008	Earthwork template w	ill need to be adjusted
(date)		(effect)
Dates of any previous or o	concurrent submission of	the same proposal.
	(date and/o	r dates)
•		RECEIVED

'APR 2 1 2008

Additional Comments:

** Portion Below This Line To Be Filled Out by MoDOT **

RE INSTALLED U	REQUIRES A 4 FOOT SHOWN HEN REHABILITATING RURAN NITHE NHS SYSTEM.	PLDER (MINIMUM) AL MAJOR ROUTES.
ludi	PUL AUDIE A. PULLIAM	4/11/08
-	Submitted By Resident Engineer	Date
Comments:	Tom Stehn	
Recommended		4/18/08
Rejection Recommended	District Engineer	Date
Comments:	with RE comments.	
ryiee	David Da Godon	
Approval	LUGICO LU CHESTOR	4-22-08
Rejection	State Operations Engineer BAN) Date

Distribution:

Resident Engineer, District Operations Engineer, State Operations Engineer *Value Engineering Administrator - *MoDOT, P.O. Box 270, Jefferson City, MO 65102

Value Engineering Proposal #1

Quantities for 4' shoulders

Line No.	Item Description	Quantity	Units	Unit Price	Amount
50	Type 1 Aggregate for Base	48534.00	SY	\$3.79	\$183,943.86
60	Bit. Pavement (BP-1)	17634.10	Tons	\$43.00	\$758,266.30
70	Bit. Base (BB)	5276.60	Tons	\$43.13	\$227,579.76
50xx	Additional Dirt for Shoulders	90.00	Sta	\$2,091.90	\$188,271.00

Total= \$1,358,060.92

Quantities for 3' shoulders

Line No.	Item Description	Quantity	Units	Unit Price	Amount
50	Type 1 Aggregate for Base	36400.50	SY	\$3.79	\$137,957.90
60	Bit. Pavement (BP-1)	13225.58	Tons	\$43.00	\$568,699.94
70	Bit. Base (BB)	3957.45	Tons	\$43.13	\$170,684.82
50xx	Additional Dirt for Shoulders	90.00	Sta	\$1,673.52	\$150,616.80

\$ 1,027,959.45 Total=

Cost to Substitute 2" of Bit. Base for 4" Type 1 Aggregate for Base

	7, 00 0				
Line No. Item Description	Quantity	Units	Unit Price	Amo	ount
70 Bit. Base (BB)	3957.45	Tons	\$ 43.13	\$	170,684.82
50 Type 1 Aggregate for Base	36400.50	SY	\$ 3.79	\$	137,957.90
			Total	Ф_	22 726 02

32,726.92

Savings due to new proposal

Total for 4' Shoulders

\$ 1,358,060.92

Total for 3' Shoulders

\$ 1,027,959.45

Total =

\$ 330,101.46

Cost to Sub. Bit Base for Aggregate

32,726.92

Total Net Savings= \$ 297,374.54



"Raines Phillip" <Phillip.Raines@apac.com> 04/10/2008 02:14 PM

To <Audie.Pulliam@modot.mo.gov>, <robert.reed@modot.mo.gov>

cc "Stastny Jason" <Jason.Stastny@apac.com>, "Davis Josh" <Josh.Davis@apac.com>

bcc

Subject V.E. Proposal #1

Audie,

Attached are two documents for our Value Engineering Proposal. We are proposing to modify the shoulders from 4' to 3' and substitute 2" of Bit Base for 4" of Type 1 Aggregate for Base. Our modification is based on the plans and will actually be a little more than 3' for the shoulders due to the roadway being wider than 21' along the majority of the roadway. We discussed this issue at the preconstruction meeting where we agreed to construct the shoulders based on the existing edge of pavement.

Let us know if you have any questions.

Phillip Raines, P.E. Estimator 573-449-0886 (office) 573-289-9969 (cell)



Value Engineering Proposal #1.pdf V.E. Proposal #1.xls



Missouri Department of Transportation



Tom Stehn, District Engineer

South Central District
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Willow Springs, MO 65793
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Toll free 1-888 ASK MoDOT
www.modot.org

TO:

Dave Ahlvers

State Construction & Materials Engineer

RECEIVED

FROM:

Edward Hess

Operations Engineer, D9

APR 212008

Construction & Materials - ECR

DATE:

April 18, 2008

Subject:

Value Engineering Proposal

Contract I.D. 071130-901

J9L0700L

Rte. 34, Reynolds Co.

Attached please find the Value Engineering Proposal submitted by the contractor, APAC-Missouri, Inc. for the above noted project. The District Engineer, Mr. Tom Stehn, has rejected this proposal at the District Level.

Thank you, for you attention in this matter.

VALUE ENGINEERING CHECK SHEET

TYPE OF WORK

(Check one that applies)

- □ Bridge/Structure/Footings
- □ Drainage Structures (RCP, RCB, CMP's, ect.)
- □ TCP/MOT
- X Paving (PCCP, ect.)
- □ Grading/MSE Walls
- □ Signal/Lighting/ITS
- □ Misc. ____

SUMMARY OF PROPOSAL

(If needed, condense summary to a couple of lines)

The contractor is proposing to reduce the width of the shoulder from 4' to 3'. The savings for this would be \$330,101.47. The proposal also includes the substitution of 2" Bituminous Base in lieu of 4" Type 1 Aggregate Base at an additional cost of \$32,726.92. Therefore the total savings would \$297,374.55.

MoDOT policy requires a 4 foot shoulder (minimum) be installed when rehabilitating rural major routes. Route 34 is on the NHS system.

Therefore we reject this VE proposal.

SCANNIN	IG OF ${\mathcal D}$	OCUMENT	
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If the proposal is large, please mark or make note, which pages need to be scanned into the database. If there are special instructions, make note of them here.					